



UT Southwestern Research Software and Computing Cores

UT Southwestern
Medical Center

Thomas B. Spencer
Director of Operations
Academic and Administrative Information Resources
UT Southwestern Medical Center

Research Cores Supported by IR (AIS)

- **Research Software Core**
 - <http://www.utsouthwestern.edu/research/core-facilities/research-software-core/index.html>
- **Research Computing**
 - <http://www.utsouthwestern.edu/research/core-facilities/research-computing.html>

Mission Statement

Our mission is to provide an IT infrastructure for science that supports data intensive research in a highly collaborative environment.

This infrastructure includes:

- Storage
- High-speed network connectivity
- High-performance computing platform
- Software tools (Through the Research Software Core)
- Services to support the advanced analytic needs of our scientific community.



IR Teamwork

By working with UT Southwestern IR and the UT System as a whole, the cores serve as a liaison for researchers looking for the best tools to serve their needs.

Common Questions

- What data storage options exist?
- How do I move data?
- How do I get research software?



Who do I talk to?

Academic Information Systems

Academic Information Systems (AIS) strives to serve the information technology needs of the academic programs at UT Southwestern Medical Center, supporting the institution's research and educational endeavors.

We are your liaison

Storage Options

- LabArchives: Electronic Lab Notebook
 - <http://www.utsouthwestern.edu/about-us/administrative-offices/information-resources/academic-information-systems/systems/labarchives.html>
- Network Drive Space
 - <http://www.utsouthwestern.net/intranet/administration/information-resources/network/network-drives/>
- BioHPC
 - <https://portal.biohpc.swmed.edu/content/>
- TACC
 - <https://www.tacc.utexas.edu/>

Pathfinder

<https://ais.swmed.edu/pathfinder/>



Help me choose!

Safely Moving Data

MOVEit DMZ safely and securely collects, stores, manages, and distributes sensitive files between you and internal or external entities over encrypted connections

- 500+ Current Users
- 1Tb+ of usage per month



<http://www.utsouthwestern.net/intranet/administration/information-resources/network/servers/moveit.html>

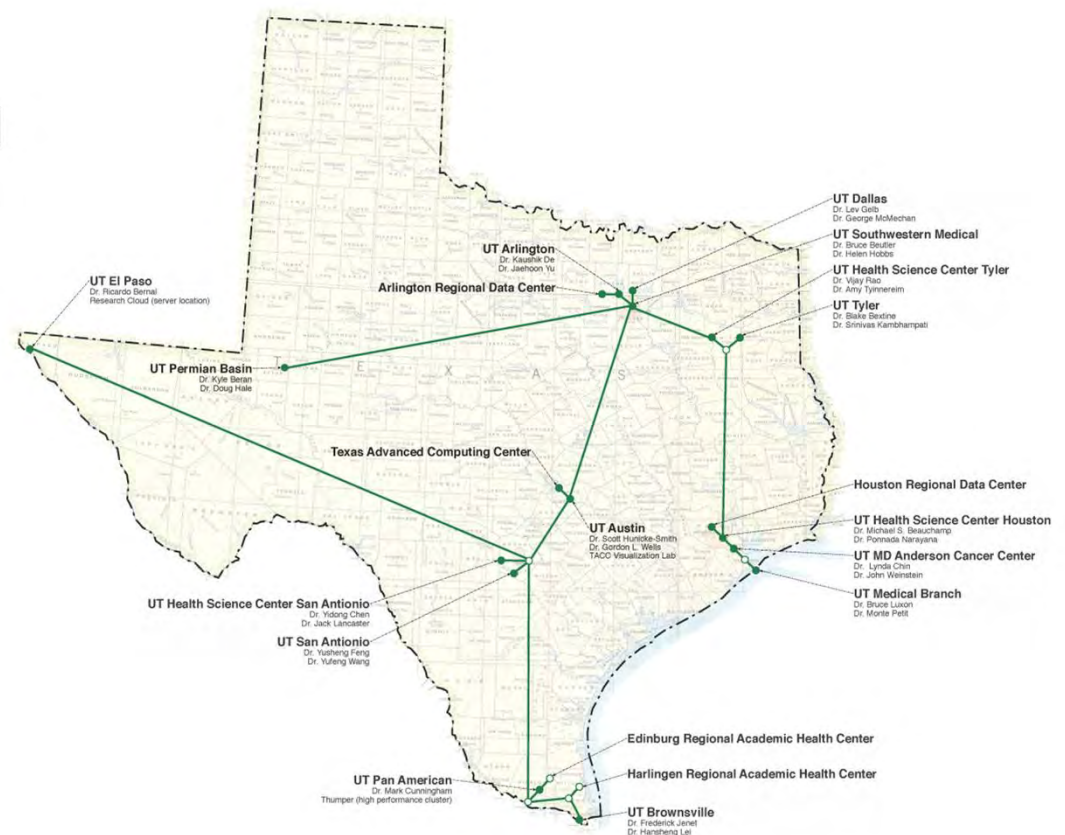
High-Speed Network

High-bandwidth network connectivity between the UT CyberInfrastructure resources and institutions enables sharing of data and movement of data to/from computing and data systems.

UT SysNet deployed this high-bandwidth network capability (10 Gbps connection) between the institutions, and works with institutions to utilize it by resolving 'last-mile' issues into research facilities and centers on their campuses.

High-Speed Network

- 10 Gbps
 - All campuses connected
 - Campuses taking advantage of the high-speed connectivity in a variety of ways
 - Some issues remain with connection to UTMB
- 100 Gbps
 - Some locations
 - Connection into the national backbone



Local Software Core

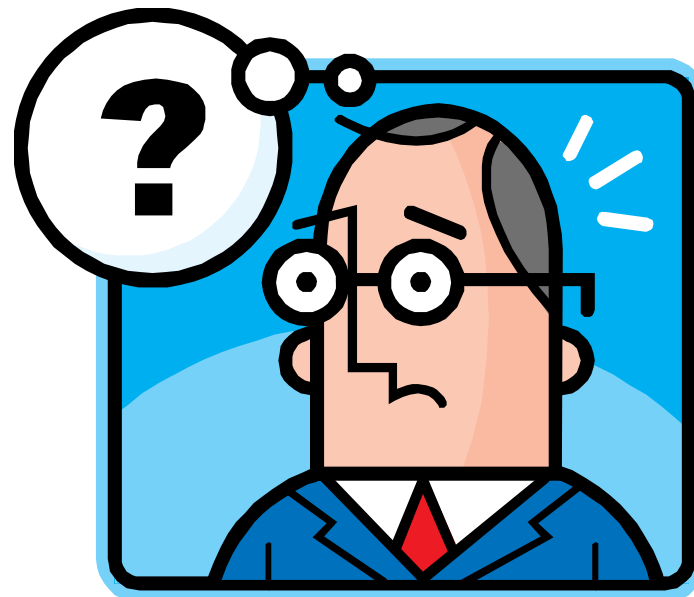
The Research Software Core provides a single site for users to determine which software packages are available to research personnel at UT Southwestern Medical Center.

The goal of the core is to provide software that will benefit researchers at low or no cost. This is accomplished through bulk purchases and low cost buy-in to campus-wide licenses.

Research Software Currently Available

- ChemBioOffice
- Endnote
- FlowJo
- GraphPad Prism
- Lasergene
- MATLAB
- MoveIT DMZ SFTP
- PyMol
- REDCap
Data Manager
- SigmaPlot
- SAS
- SPSS
- Vector NTI
- Wolfram Mathematica

Questions



Thomas.Spencer@UTSouthwestern.edu